BPS 494. Special Topics of Current Interest in Biopharmaceutical Sciences. 1-3 hours.
Courses offered by faculty or a visiting Lecturer on a current topic of selected interest. Topics are available on an experimental basis for one offering only. Course Information: May be repeated to a maximum of 6 hours. Prerequisite(s): Consent of the instructor; good academic standing as defined by UIC policies.

BPS 421. Advanced Dosage Form Design [Compounding]. 1 hour.
Students attend five recitations and ten labs where they make twenty new dosage formulations. Several dosage formulations are of veterinary products used to treat diseases in dogs, cats, horses, cattle and other large animals. Course Information: Prerequisite(s): PHAR 321 and PHAR 322.

BPS 430. Principles of Toxicology. 2 hours.
Examines the toxic effects of drugs and chemicals on organ systems. Lectures emphasize basic principles, effects on specific organ systems, major classes of toxic chemicals, and specialized topics such as forensic and industrial toxicology. Course Information: Same as PCOL 430. Credit is not given for BPS 430 if student has credit for EOHS 457.

BPS 494. Special Topics of Current Interest in Biopharmaceutical Sciences. 1-3 hours.
Courses offered by faculty or a visiting Lecturer on a current topic of selected interest. Topics are available on an experimental basis for one offering only. Course Information: May be repeated to a maximum of 6 hours. Prerequisite(s): Consent of the instructor; good academic standing as defined by UIC policies.
BPS 542. Pharmacodynamics of Substance Abuse. 2 hours.
Considers the mechanisms of action, responses, pharmacokinetics and
dependence factors of substance abuse. Emphasis will be placed on
research strategies in studying the biological aspects of drug abuse.
Course Information: Prerequisite(s): Consent of the instructor.

BPS 545. Advanced Pharmacokinetics. 3 hours.
Kinetics of absorption, distribution, metabolism and excretion of
drugs factors affecting these kinetics and their relationship to
pharmacodynamics. Course Information: Prerequisite(s): Consent of the
instructor.

BPS 553. Cancer Biology and Therapeutics. 2 hours.
Fundamentals of cancer biology with emphasis on biological, hormonal
and chemotherapeutic drug therapies currently used and in development.
Specific treatment approaches to breast, ovarian, prostate and colon
cancers will be explored. Course Information: Same as MDCH 553 and
PMPG 553. Prerequisite(s): Consent of the instructor. Recommended
background: Molecular and Cellular Biology.

BPS 555. Principles of Pharmacogenomics. 2 hours.
Concept and application of pharmacogenomics in disease diagnosis,
prevention, and treatment. Course Information: Prerequisite(s): BPS 502
or consent of the instructor.

BPS 570. Foundations of Forensic Toxicology. 2 hours.
Survey of forensic toxicology, with emphasis on analytical and interpretive
aspects; unique characteristics, underlying philosophies, ethics; analytical
methods, nontraditional matrices, interpreting the significance of results.
Course Information: Prerequisite(s): Consent of the instructor.

BPS 573. Drug Identification Chemistry. 4 hours.
In-depth treatment of classes of commonly encountered drugs of
abuse and the analytical methods used in their screening, identification
and quantitation. Course Information: Prerequisite(s): Consent of the
instructor. Class Schedule Information: To be properly registered,
students must enroll in one Laboratory and one Lecture.

BPS 574. Forensic Toxicology. 4 hours.
In-depth treatment of techniques used in forensic toxicology, including
specimen preparation, drug or toxin isolation, and analytical methods for
screening, identification and quantitation; interpretation, reporting and
testifying as to results. Course Information: Prerequisite(s): Consent of the
instructor. Class Schedule Information: To be properly registered,
students must enroll in one Lecture and one Laboratory.

BPS 580. Forensic Science: Survey and Foundations. 2 hours.
Survey course for forensic sciences with emphasis on criminalistics;
unique characteristics, underlying philosophies; nature, analytical
methods, significance of results with chemical, biological, trace, pattern
evidence. Course Information: Same as CLJ 580. Prerequisite(s):
Approval of the department.

BPS 581. Forensic Analysis of Biological Evidence. 4 hours.
Forensic blood and physiological fluid identification; DNA typing of
biological evidence; report writing; expert testimony. Course Information:
Prerequisite(s): Consent of the instructor. Class Schedule Information: To
be properly registered, students must enroll in one Laboratory and one
Lecture.

BPS 582. Forensic Chemistry and Trace Evidence Analysis. 4 hours.
Trace evidence: hairs, fibers, glass, soil, paint and miscellaneous; nature,
chemical, instrumental, microscopical methods of analysis; interpretation
and significance of trace similars; expert testimony. Course Information:
Prerequisite(s): Consent of the director of graduate studies. Class
Schedule Information: To be properly registered, students must enroll in
one Laboratory and one Lecture.

BPS 583. Physical Pattern Evidence Analysis. 4 hours.
Pattern evidence: individualization, reconstruction; fingerprint
classification; questioned documents; handwriting comparison; firearms
and toolmarks comparisons; scene patterns and reconstruction will
be studied indepth. Course Information: Prerequisite(s): Consent of the
instructor. Class Schedule Information: To be properly registered,
students must enroll in one Laboratory and one Lecture.

BPS 584. Forensic Drug Analysis and Toxicology. 4 hours.
Analysis of commonly abused drugs in their solid-dosage form and in
biological media, with emphasis on modern instrumental methods and
interpretation of results. Course Information: Prerequisite(s): Consent of the
instructor. Class Schedule Information: To be properly registered,
students must enroll in one Laboratory and one Lecture.

BPS 585. Ethical, Quality, Practice, and Legal Issues in Forensic
Science. 3 hours.
A topical presentation-discussion of ethical, quality control, admissibility
and practice topics emanating from the law-science interface integral to
forensic sciences.

BPS 586. Topics in Specialty Forensic Examinations. 1-4 hours.
Topics may vary but will revolve around specialty forensic examinations,
covering specific evidentiary classes (e.g. drug identification, DNA typing,
fingerprints), including forensic laboratory methods, approaches and
data interpretation. Course Information: May be repeated if topics vary.
Students may register in more than one section per term. Prerequisite(s):
BPS 581 or BPS 582 or BPS 583 or BPS 584; and consent of the
instructor. Students must have credit in the forensic science program core
course that covers the specific topic.

BPS 587. Forensic Science Seminar. 1 hour.
Weekly seminar series on forensic science research and topics,
especially those outside the core requirements. Presentations by
students, faculty, and guests. Course Information: Satisfactory/
Unsatisfactory grading only. May be repeated. Prerequisite(s): Graduate or
professional standing.

BPS 588. Expert Witness Testimony and Courtroom Demeanor. 3
hours.
Trials, hearings, grand jury; expert versus lay witness; personal and
behavioral characteristics on the stand; results, reports and courtroom
testimony; simulated trial testimony. Course Information: Prerequisite(s):
Approval of the department.

BPS 589. Special Topics in Forensic Science. 3 hours.
Content may vary but will revolve around the philosophic, moral, and
managerial problems associated with criminalistics practice. Topics may
include evidence collection, analysis, reporting, and testimony to non-
criminalistics fields. Course Information: Same as CLJ 589. May be
repeated if topics vary. Prerequisite(s): Consent of the instructor.
BPS 590. Forensic Science Residency. 1-8 hours.
In-depth training for casework analysis in a specific forensic discipline (e.g., drug identification, DNA typing, fingerprints) in an approved forensic science laboratory. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 24 hours. Prerequisite(s): BPS 581 or BPS 582 or BPS 583 or BPS 584; and consent of the instructor. Students must have credit in the forensic science program core course that covers the specific topic.

BPS 591. Topics in Forensic Microscopy. 1-4 hours.
Topic may vary but will revolve around microscopical characterization of various materials, with emphasis on forensic laboratory methods and approaches, and interpretation of materials comparisons as evidence. Course Information: May be repeated if topics vary. Students may register in more than one section per term. Prerequisite(s): BPS 582 and consent of the instructor.

BPS 592. Forensic Science Internship. 2-4 hours.
Placement in a forensic science or toxicology laboratory or setting, under the supervision of a faculty member, with an accepted research project or paper required. Course Information: May be repeated to a maximum of 4 hours. Students may register in more than one section per term. Prerequisite(s): BPS 580; and consent of the instructor and a minimum of 15 hours of credit earned in the M.S. in Forensic Science program.

BPS 593. Research in Biopharmaceutical Sciences. 0-16 hours.
Research in biopharmaceutical sciences with the guidance of a faculty mentor. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Approval of the department.

BPS 594. Special Topics in Biopharmaceutical Sciences. 1-4 hours.
Content varies. Special topics in biopharmaceutical sciences not covered in regular core or elective offerings. Course Information: May be repeated to a maximum of 4 hours if topics vary. Prerequisite(s): Consent of the instructor.

BPS 595. Departmental Seminar. 1-2 hours.
Weekly seminar series on research and experimental techniques in biopharmaceutical sciences. Also consists of journal club at which students will present an article once a year. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Weekly seminar and journal club meet separately from one another. Prerequisite(s): Approval of the department.

BPS 596. Independent Study in Forensic Science. 1-8 hours.
Supervised projects may consist of extensive reading or laboratory work, or both, on topics not covered in regular course offerings. Research undertaken for this course may not duplicate that being done for BPS 597 or BPS 598. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. Prerequisite(s): Consent of the instructor.

BPS 597. Forensic Science Project Research. 3 hours.
Supervised research in forensic science; a research project to be designed and completed within one semester. Course Information: Satisfactory/Unsatisfactory grading only. Prerequisite(s): BPS 580; and at least the core course in the M.S. in Forensic Science program covering the subject area in which the research is to be conducted and consent of the instructor.

BPS 598. M.S. Thesis Research. 0-16 hours.
For students doing M.S. thesis research or thesis writing. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 10 hours. A minimum of 6 hours is required. Prerequisite(s): Consent of the instructor.

BPS 599. Dissertation Research. 0-16 hours.
Ph.D. thesis research. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.